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PERFORMANCE-RELATED EVALUATION OF SLURRY SURFACINGS BY MEANS OF THE ASTRA TEST METHOD

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ABSTRACT

The importance of slurry surfacings in the area of road construction and maintenance is demonstrated by the increasing number of applications throughout the world which originate by the satisfying record which they have both in terms of skid-resistance and surface sealing. However, it is still necessary to define practical laboratory methods which can be useful in the design of these special surface treatments and in the evaluation of their estimated field performance. Available methods seem to be oversimplifying in their approach and often do not discriminate clearly between poor and acceptable surfacings.

As a result of these observations the Authors have developed a test method, specifically devised for slurry surfacings, which is based on the use of the ASTRA test equipment, previously employed for the characterisation of bituminous interfaces, surface dressings and thin bonded overlays. By using such a protocol it is shown that the performance of the surfacings may be correlated to temperature and curing conditions, and to the composition of the slurry.

KEYWORDS: slurry surfacings, testing, ASTRA, curing, temperature.